

Appl. No. 10/626,182  
Amdt. dated 08/08/2006  
Reply to Office Action of 07/20/2006

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listing of claims, in the Application.

Listing of claims:

1. (Currently amended) A method of improving fault-based multi-page pre-fetches comprising the steps of:

assigning a value to a file when the file is opened, the value for determining whether previous data has been read from a random access memory (RAM) or from a storage device;

determining whether data from a the file is being read randomly or sequentially upon receiving a request to read data from the file, the request including a range of data to be read, the range of data spanning more than one page;

determining, if data is being read randomly from the file, whether previous data has been read from the RAM a random access memory (RAM) or from a the storage device;

determining, using the range of data, how much data to read; and

attempting to read the data from the RAM if previous data has been read from the RAM or read the data all at once from the storage device using only one page fault if previous data has been read from the storage device; and

increasing the value by an award if the requested data is in the RAM.

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2. Canceled.
3. Canceled.
4. Canceled.
5. (Currently amended) The method of Claim [[4]] 1 wherein if it is determined that previous data was read from the RAM, the value is decreased by a penalty if the requested data is not in the RAM.
6. (Original) The method of Claim 5 wherein if it is determined that previous data was read from the storage device, the value is increased by the award.
7. (Original) The method of Claim 6 wherein the penalty is larger than the award.
8. (Currently amended) A computer program product on a computer readable medium for improving fault-based multi-page pre-fetches comprising:

code means for assigning a value to a file when the file is opened, the value for determining whether previous data has been read from a random access memory (RAM) or from a storage device;

code means for determining whether data from a file is being read randomly or sequentially upon receiving a request to read data from the file, the request including a range of data to be read, the range of data spanning more than one page;

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code means for determining, if data is being read randomly from the file, whether previous data has been read from the RAM a random access memory (RAM) or from a the storage device;

~~code means for determining, using the range of data, how much data to read, and~~

code means for attempting to read the data from the RAM if previous data has been read from the RAM or read the data all at once from the storage device using only one page fault if previous data has been read from the storage device; and

code means for increasing the value by an award if the requested data is in the RAM.

9. Canceled.
10. Canceled.
11. Canceled.
12. (Currently amended) The computer program product of Claim 41 8 wherein if it is determined that previous data read was from the RAM, the value is decreased by a penalty if the requested data is not in the RAM.
13. (Original) The computer program product of Claim 12 wherein if it is determined that previous data was read from the storage device, the value is increased by the award.

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14. (Original) The computer program product of Claim 13 wherein the penalty is larger than the award.

15. (Currently amended) A computer system comprising:

at least one storage device for storing code data; and

at least one processor for processing the code data to assign a value to a file when the file is opened, the value for determining whether previous data has been read from a random access memory (RAM) or from a storage device, to determine whether data from ~~a~~ the file is being read randomly or sequentially upon receiving a request to read data from the file, the request including a range of data to be read, the range of data spanning more than one page, to determine, if data is being read randomly from the file, whether previous data has been read from the RAM ~~a random access memory (RAM)~~ or from ~~a~~ the storage device, to determine, using the range of data, how much data to read, and to attempt to read the data from the RAM if previous data has been read from the RAM or read the data all at once from the storage device using only one page fault if previous data has been read from the storage device, and to increase the value by an award if the requested data is in the RAM.

16. Canceled.

17. Canceled.

18. Canceled.

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19. (Currently amended) The computer system of Claim 18 15 wherein if it is determined that previous data was read from the RAM, the value is decreased by a penalty if the requested data is not in the RAM.
20. (Original) The computer system of Claim 19 wherein if it is determined that previous data was read from the storage device, the value is increased by the award.
21. (Previously presented) The computer system of Claim 20 wherein the penalty is larger than the award.

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